

**Duration : 3hrs**

**(Max Marks: 80)**

**Please check whether you have got the right question paper.**

- N.B:**
- 1. Question No 1 is Compulsory**
  - 2. Attempt any three questions out of the remaining five.**
  - 3. All question carry equal marks.**
  - 4. Assume suitable data, if required and state it clearly.**

- 1** Attempt any FOUR **(20)**
- A What are the guidelines to select appropriate testing tool?
  - B What is the need of Automation testing
  - C Differentiate between Verification and Validation
  - D What are the different types of bugs depending upon stages of SDLC
  - E What are key elements of Test Management?
- 2** A A program reads three numbers, A, B, and C, with in the range (2, 1000) and prints the Largest **(10)**
- B What are the Quality Factors and Criteria outlined by McCall, and how do they contribute to the overall understanding of software quality? **(10)**
- 3** A How do unit Testing and Integration testing differ from each other? **(10)**
- B What exactly is Mutation Testing, and could you elaborate on the concept of a primary mutant with one example.
- 4** A Explain Different components of Test plan document **(10)**
- B Explain Test Point Analysis. **(10)**
- 5** A How does Agile testing work, and what are some of the challenges that can arise in the process? **(10)**
- B What insights can be gained from exploring Graph Metrics? **(10)**
- 6** A What difficulties do you encounter when testing web-based software? **(10)**
- B What is Alpha testing? What is the entry and exit criteria for Alpha Testing **(10)**

\*\*\*\*\*